

# **FLASHTOASTER FOR READING SEVERAL TYPES OF FLASH MEMORY CARDS WITH OR WITHOUT A PC**

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US7222205 (B2)  
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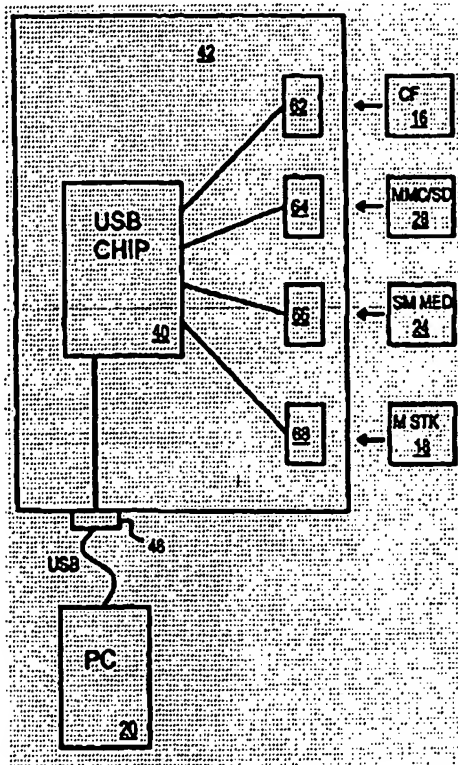
Cited documents:

US6264506  
US6075706

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## **Abstract of WO0205102**

A flash-memory-card reader (42) reads and writes multiple types of flash-memory cards (16, 18, 24, 28, 26), including CompactFlash (16), and the smaller SmartMedia (24), MultiMediaCard (28), Secure Digital (26), and Memory Stick (18). A converter chip (40) converts the different card signals for transfer to a host personal computer (PC) (20). Serial-to-parallel data conversion is performed for the smaller card formats with serial data interfaces, but not for CompactFlash with a parallel-data interface. A single slot (22) has a 50-pin connector for CompactFlash cards (16) or passive adapters (30, 32, 34). The passive adapters have the CompactFlash (16, 28, 24, 18) form factor and a smaller connector fitting smaller flash cards (30, 34, 32). Passive adapters have no components but simply wire the smaller connector to the CompactFlash connector (62, 64, 66, 68). A pin mapping allows card-type detection by sensing the LSB address pins of the CompactFlash interface. A larger CompactFlash reader (42) has multiple slots (44) for each card type. The reader (42) is connected to the PC by a cable (46), or located within the PC chassis in a drive bay. A stand-alone reader (42) copies images from the flash-memory card (16) to a removable disk media. Pressing a button initiates image transfer.



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